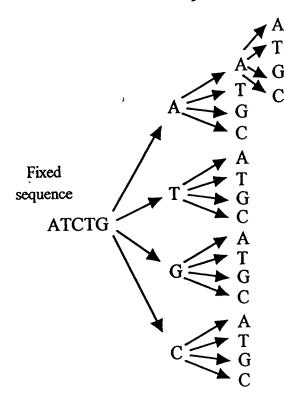
'APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Applicant: Periannan Senapathy Serial No: 09/431,451 Atty. Docket No.: 34623.085

Expanding array of sequences



Add A, T, C, and G to the last nucleotide G

Some possible sequences linked to the constant sequence

ATCTGAAA ATCTGAAT ATCTGAAG ATCTGAAC ATCTGATA ATCTGATT ATCTGATG ATCTGATC **ATCTGTAA ATCTGTAT ATCTGTAG ATCTGTAC ATCTGCCA ATCTGCCT ATCTGCCG ATCTGCCC Fixed** sequence Variable

sequences

APPROVED O.G. FIG.

BY CLASS SUBCLASS
DRAFTSMAN

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5' splice junction: AGGT GGT

3' splice junction: TT TTTTT XAC

CCTCCCCCC

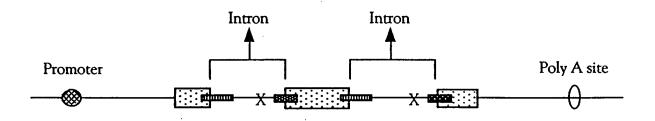
Promoter region: TATAA

Poly A: ATAATA

Alu repeats: Repeats of about 250 bases

Homeobox: A sequence of about 180 bases

coding for ~ 60 amino acids



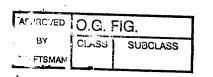
Exon

5' Splice Junction

3' Splice Junction

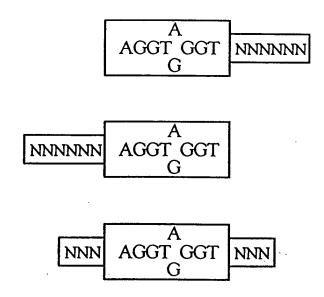
X Lariat signal

FIG. 2



Unknown DNA
Applicant: Periannan Senapathy
Serial Ne: 09/431,451
Atty. Docket Ne.: 34623.005

5' Splice Consensus Primer



Promoter Consensus Sequence:

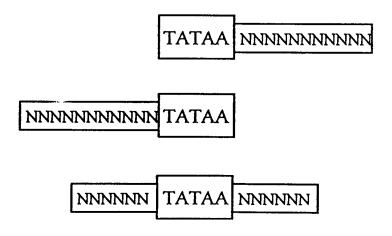


FIG. 3

*AFPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DPAFTSMAN:		

Unknown DNA
Applicant: Periannan Senapathy
Serial No: 09/431,451
Atty. Docket No.: 34623,005

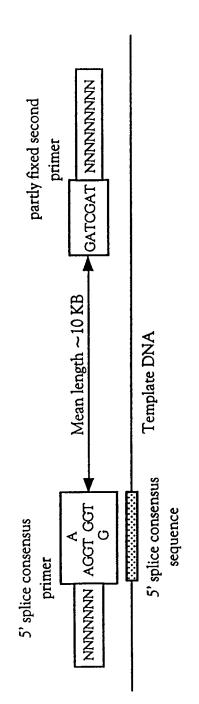


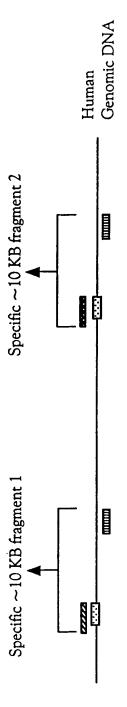
FIG. 4A

AFPROVED O.G. FIG.

BY CLASS SUBCLASS

DOAFTSMA**

Unknown DNA
Applicant: Periannan Senapath
Serial Ne: 09/431,451
Atty. Docket No.: 34623.005



5' splice consensus primer binding at location A of the genome seem 5' splice consensus primer binding at location B of the genome

Second, partly fixed degenerate primer

HOTOTO

FIG AE

APPROVED O.G. F.G.
BY CLASS SUBCLASS
DRATISMAN

Unknown DNA
Applicant: Periannan Senapathy
Serial No: 09/431,451
Atty. Docket No.: 34623.005

PCR amplify between 3' and 5' splice consensus primers

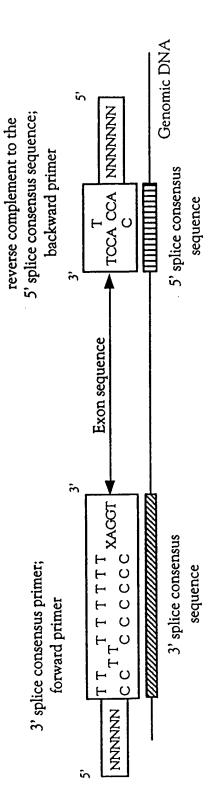


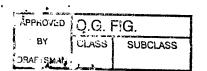
FIG. 5A

APPROVED O.G. FIG. BY SUBCLASS DRAFTSMAN

Unknown BNA
Applicant: Periannan Senapathy
Serial No: 09/431,451
Atty. Docket No.: 34623.005

Change 3 Ns to individual triplets in a PCR reaction: Total number of triplets/PCR reactions = 64

5' splice consensus sequence reverse complement to the ZZZZZ backward primer TCCA CCA AGT O



Applicant: Periannan Senapathy Serial No: 09/431,451 Atty. Docket No.: 34623.005

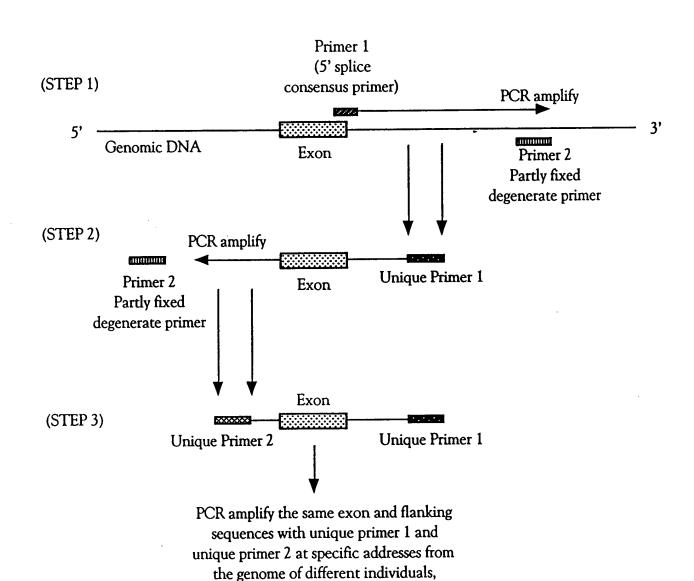
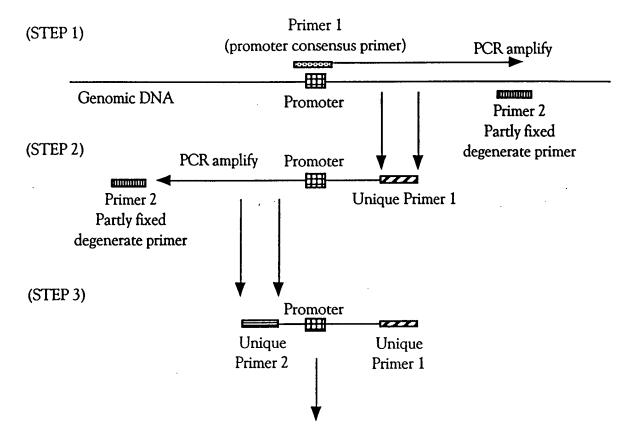


FIG. 6

sequence, and compare for SNPs

Unknown DNA
Applicant: Periannan Semanathy
Serial No: 09/431,451
Atty. Docket No.: 34623.005



PCR amplify the same promoter and flanking sequences with unique primer 1 and unique primer 2 from the genome of different individuals, sequence and compare for SNPs